## What is claimed is:

1. A joint endoprosthesis comprising:

a body configured to replace a portion of a mammalian joint;

at least one sensor supported by said body, said sensor adapted to sense an ambient condition of the mammalian joint and to generate a condition signal indicative of the sensed condition; and

a transmission element connected to said sensor to receive said condition signal and operable to transmit a signal indicative of said condition signal.

- 2. The joint endoprosthesis of claim 1, wherein said sensor is a temperature sensor and the ambient condition is temperature.
- 3. The joint endoprosthesis of claim 1, wherein said sensor is a pH sensor and the ambient condition is pH.
- 4. The joint endoprosthesis of claim 1, wherein said sensor is configured to determine the presence of a biological material.
- 5. The joint endoprosthesis of claim 1, wherein said sensor is a configured to sense the presence of a pre-determined liquid.
- 6. The joint endoprosthesis of claim 1, wherein said body is a component of a joint prosthesis selected from the group of a hip prosthesis, a knee prosthesis, a shoulder prosthesis and an elbow prosthesis.
- 7. The joint endoprosthesis of claim 1, wherein said transmission element includes an alarm.

- 8. The joint endoprosthesis of claim 1, wherein said transmission element includes a transmitter supported by said body and configured to transmit a signal to a receiver located outside the joint indicative of said condition signal.
- 9. The joint endoprosthesis of claim 8, wherein said transmission element includes an antenna and a power source providing power to said antenna.
- 10. The joint endoprosthesis of claim 1, further comprising a power source supported by said body and connected to provide power to said sensor and said communication element.
- 11. The joint endoprosthesis of claim 10, wherein said power source is a passive power source.
- 12. A system for sensing a condition within a mammalian joint comprising:

an endoprosthesis including a body configured to replace a portion of the joint;

a sensor supported by said body, said sensor adapted to sense an ambient condition of the mammalian joint and to generate a condition signal indicative of the sensed condition;

a transmitter connected to said sensor to receive said condition signal and operable to transmit a transmission signal outside the joint indicative of said condition signal;

a receiver disposed outside the joint for receiving said transmission signal; and

translation circuitry for translating said transmission signal to a human sensible signal.

- 13. The system for determining a condition within a mammalian joint of claim 12 wherein said translation circuitry includes an alarm.
- 14. The system for determining a condition within a mammalian joint of claim 13, wherein said alarm is configured to produce an audible signal.
- 15. The system for determining a condition within a mammalian joint of claim 13, wherein said alarm is configured to produce a vibration.
- 16. The system for sensing a condition within a mammalian joint of claim 12, wherein said translation circuitry includes a display configured to produce a visually sensible signal.
- 17. A method for determining a condition within a mammalian joint comprising the steps of:

introducing a sensor within the joint, the sensor adapted to sense an ambient condition of the joint and to generate a sensor signal indicative of the ambient condition;

coupling the sensor with a transmission element operable to transmit an information signal outside the joint in response to the sensor signal;

sensing the ambient condition within the joint; and transmitting the information signal.

18. The method for determining a condition within a mammalian joint of claim 17, further comprising the step of:

analyzing the sensor signal to determine whether the ambient condition is abnormal; and

transmitting a human sensible warning signal in response thereto.